Title (en)

FM-CW radar apparatus

Title (de)

FM-CW Radarvorrichtung

Title (fr)

Système de radar à onde entretenue et modulée en fréquence

Publication

EP 0981059 A2 20000223 (EN)

Application

EP 99113063 A 19990706

Priority

JP 23157198 A 19980818

Abstract (en)

An FM-CW radar apparatus permits proper pairing between beat frequencies in an up interval and beat frequencies in a down interval and comprises a peak extracting section for extracting level peaks at each scanning angle of beat frequencies, each beat frequency being a frequency difference between a received wave and a transmitted wave, in each of a modulation frequency increasing interval and a modulation frequency decreasing interval; a grouping section for grouping level peaks of approximately equal beat frequencies adjacent in a scanning direction to create level peak groups having respective typical scanning angles, for either of the increasing-interval level peaks and decreasing-interval level peaks thus extracted; a pairing section for pairing a level peak group in the increasing interval with a level peak group in the decreasing interval where the level peak groups have an equal typical scanning angle; and a calculating section for calculating target information from beat frequencies of the increasing-interval and decreasing-interval level peak groups thus paired. <IMAGE>

IPC 1-7

G01S 13/34

IPC 8 full level

G01S 13/06 (2006.01); **G01S 7/35** (2006.01); **G01S 13/34** (2006.01); **G01S 13/42** (2006.01); **G01S 13/93** (2006.01)

CPC (source: EP KR US)

G01S 7/354 (2013.01 - EP US); **G01S 13/06** (2013.01 - KR); **G01S 13/34** (2013.01 - EP US); **G01S 13/42** (2013.01 - EP US); G01S 7/356 (2021.05 - EP US); G01S 13/345 (2013.01 - EP US)

Cited by

EP1666914A4; EP1326088A3; US7791532B2; EP1347306A3; EP1319961A1; CN100340866C; EP1477826A3; EP1510833A4; EP1906206A1; CN100451676C; EP1847849A3; EP1369705A4; EP1589352A3; EP1666919A3; US6765523B2; US6753805B2; US7176830B2; US6856278B2; WO02054108A1; US7586436B2; WO2005026769A1; KR100645771B1

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